	Application No.	Applicant(s)	
Notice of Allowability	08/885,770	BRINATI ET AL.	
	Examiner	Art Unit	
	Bemard Lipman	1713	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to papers filed 02 December 2004 and 14 September 2005.			
2. The allowed claim(s) is/are 1 and 3-14.			
3. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	been received. been received in Application currents have been received of this communication to file iENT of this application. itted. Note the attached EXA as reason(s) why the oath or it be submitted. on's Patent Drawing Review	No in this national stage application from a reply complying with the requiremen MINER'S AMENDMENT or NOTICE C declaration is deficient. (PTO-948) attached	ts
Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./N 8), 7. ☑ Examiner's A	ormal Patent Application (PTO-152) mmary (PTO-413), fail Date unendment/Comment Statement of Reasons for Allowance	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard J. Berman, Esq. on 10 February 2006.

The application has been amended as follows: The Claims are to read as follows:

- 1. (Previously Amended) VDF polymerization process, optionally modified with small amounts, generally comprised between 0.1 and 10% by moles, of one or more fluorocontaining comonomers, for preparing VDF polymers showing improved levels of white index, carried out in the presence of a microemulsion comprising a (per)fluoropolyether having neutral end groups, or microemulsions of fluoropolyoxyalkylenes having hydrogen containing end groups and/or hydrogen-containing repeating units, or microemulsions of fluoropolyoxyalkylenes having hydrogen-containing end groups and/or hydrogen-containing repeating units and hydrocarbons C₁-C₂₀, of aliphatic, aromatic or mixed type, optionally containing halogens, said fluoropolyethers having number average molecular weight from 400 to 3000, and a surfactant based on perfluoropolyethers with a sodium carboxylate end group, said surfactant having a number molecular weight Mn comprised between 400-600, and having a distribution of molecular weight such that fractions having a number average molecular weight greater than 700 are not present or are present in amount of less than 5% by weight.
- 2. (Cancelled)
- 3. (Previously Amended) VDF polymerization process according to claim 1, wherein a microemulsion comprising a perfluoropolyether with neutral end groups is utilized.

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4. (Previously Amended) VDF polymerization process according to claim 1, wherein chlorotrifluoroethylene (CTFE), hexafluoropropene (HFP), tetrafluoroethylene (TFE) are utilized as comonomers.

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- 5. (Previously Presented) VDF polymerization process according to claim 4, wherein the amount of modifying comonomer is comprised between 0.5-6% by moles.
- 6. (Previously Amended) VDF polymerization process according to claim 1, wherein the perfluoropolyethers with neutral end groups, optionally the end groups containing an hydrogen atom, utilized for preparing the microemulsions, comprise as repeating units sequences of one or more oxyfluoroalkylenic units such as -CF₂(CF₂)_zO-, wherein z is an integer equal to 1, 2 or 3, -CR₄R₅CF₂CF₂O- wherein R₄ and R₅ equal to or different from each other are chosen from H, CI or perfluoroalkyl from 1 to 4 carbon atoms, -CF₂CF(CF-₃)O-, -CFYO-, wherein Y is equal to F or CF₃.
- 7. (Previously Presented) VDF polymerization process according to claim 6, wherein the perfluoropolyethers have number average molecular weight comprised between 400 and 3000.
- 8. (Previously Amended) VDF polymerization process according to claims 6, wherein the perfluoropolyethers comprise as repeating units sequences of the classes:
 - a) (C₃F₆O)_m(CFYO)_n wherein the unit (C₃F₆O) and (CFYO) are perfluorooxyalkylenic units statistically distributed along the chain; m' and n' are integers such as to give the molecular weight indicated above, and m'/n' is comprised between 5 and 40, when n' is different from 0; Y is equal to F or CF₃; n' can be also 0; said units inside the fluoropolyoxyalkylenic chain can optionally be bound among each other by a bond -O-R'_TO-, wherein R'_f has the meaning defined in c);
 - b) $(C_2F_4O)_p (CFYO)_{q^-} (C_3F_6O)_r$ wherein p' and q' are integers such that p'/q' ranges between 5 and 0.3, preferably 2.7-0.5, and such that the molecular weight is the one indicated above; t' being an integer with the meaning of m', Y = F or CF₃; t' can be 0 and q'/q'+p'+t' lower than or equal to 1/10 and the t'/p' ratio is from 0.2 to 6;

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c) CR₄R₅CF₂CF₂O wherein R₄ and R₅ are equal to or different from each other and chosen from H, Cl or perfluoroalkyl, for instance having 1-4 C atoms, the molecular weight being that indicated above, said units inside the fluoropolyoxyalkylenic chain being bound to each other as follows:

 $(OCR_4R_5CF_2CF_2)_0$ - O- $R'_{\uparrow \bullet}O$ - $(CR_4R_5CF_2CF_2O)_0$

wherein R'_f is a fluoroalkylenic group, for instance from 1 to 4 C, p and q are integers from 0 to 200, and p+q is at least 1 and such that the molecular weight is that indicated above.

CF(CF₃)CF₂O d)

> said units being linked each other inside the fluoropolyoxyalkylenic chain as follows:

 $(OCF_2CF(CF_3))_aO-CF_2(R'_f)_xCF_2-O-(CF(CF_3)CF_2O)_b$

wherein R'_f has the meaning indicated above, x is 0 or 1, a and b are integers and a+b is at least 1 and such that the molecular weight is that indicated above.

e) $(C_2F_4O)_a(CFYO)_b$

> wherein a' and b' are integers such that the molecular weight is inside the indicated range, a'/b' ranges between 5 and 0.3, preferably between 2.7-0.5, Y has the meaning indicated above.

- 9. (Previously Amended) VDF polymerization process according to claim 1, wherein the neutral end groups of the perfluoropolyethers are perfluoroalkyls from 1 to 3 carbon atoms, CICF₂CF(CF₃)-, CF₃CFCICF₂-, CICF₂-, CICF₂-, in the case of microemulsions of fluoropolyoxyalkylenes having hydrogen-containing end groups, these are of the -CF₂H₁ -CF₂CF₂H₁ -CFH-CF₃ type.
- 10. (Previously Amended) VDF polymerization process according to claim 1, wherein the perfluoropolyethere surfactants have the same repeating units indicated for perfluoropolyethers.
- 11. (Previously Amended) VDF polymerization process according to claim 1, wherein the perfluoropolyethers have the following general formula:

$$R_fO$$
 (CF₂ - CF (CF₃) O)_{m'} (CFYO) _{n'} R"_f

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having a random distribution of the perfluorooxyalkylenic units, wherein R_f and R_f equal to or different from each other are neutral end groups as defined above, m' and n' are integers such as to meet the above requirements of molecular weight, Y has the meaning indicated above; the surfactant based on perfluoropolyether has the following formula:

 R_F O- (CF₂CF(CF₃) -O) $_{m'}$ - (CFY-0) $_n$, -CF₂COONa wherein R_f , m' n' and Y have the above meaning indicated.

- 12. (Previously Amended) VDF homopolymers or VDF copolymers modified with amounts comprised between 0.1-10% by moles of one or more fluoro-containing comonomers according to claim 1.
- 13. (Previously Presented) VDF polymerization process according to claim 1, wherein the surfactant based on perfluoropolyethers has the following formula

 $R_FO(CF_2CF(CF_3)-O)_m$ -(CFY-O)_n-CF₂COONa wherein R_f is a C1 to C3 perfluoroalkyl group, $CICF_2CF(CF_3)$ -, $CF_3CFCICF_2$ -, $CICF_2CF_2$ -, $CICF_2$ -; Y=-F, CF_3 ; m' and n' are integers meeting the requirements of the number average molecular weight recited in claim 1.

14. (Previously Presented) The VDF polymerization process according to claim 1 wherein said surfactant has a number average molecular weight Mn comprised between 400-550.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Lipman whose telephone number is 571-272-1105. The examiner can normally be reached on 8-5 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bernard Lipman Primary Examiner Art Unit 1713

BL/hs